

APPROVED	O.G. FIG.	
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$$E = R^{-6} / (R^{-6} + R_0^{-6})$$

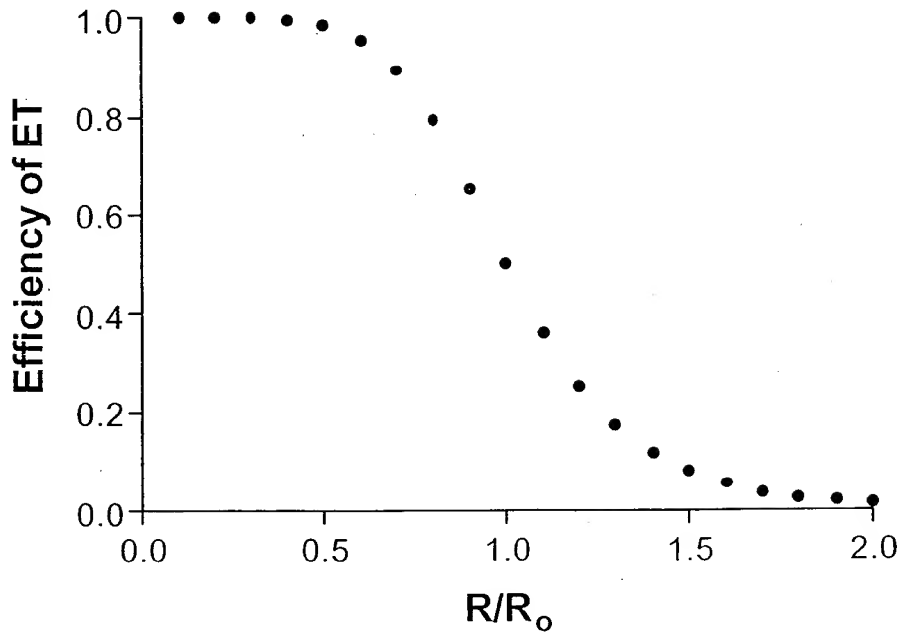


FIG. 1

APPROVED	O.G. FIG.	
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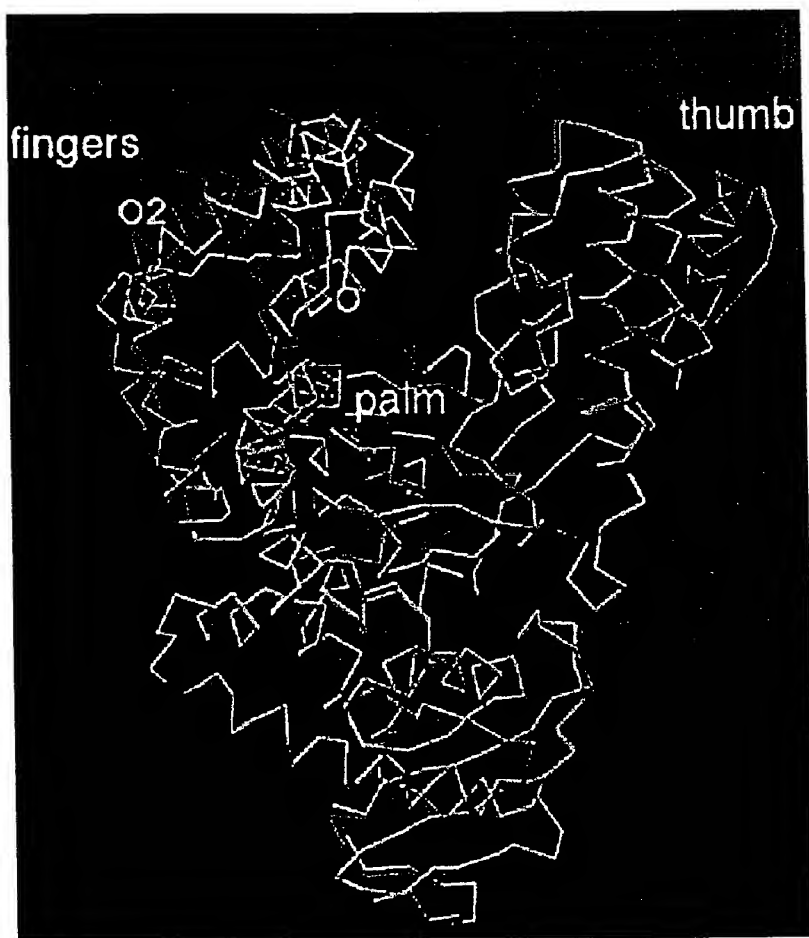


FIG. 2

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FIG. 3A

APPROVED	O.G. FIG.	
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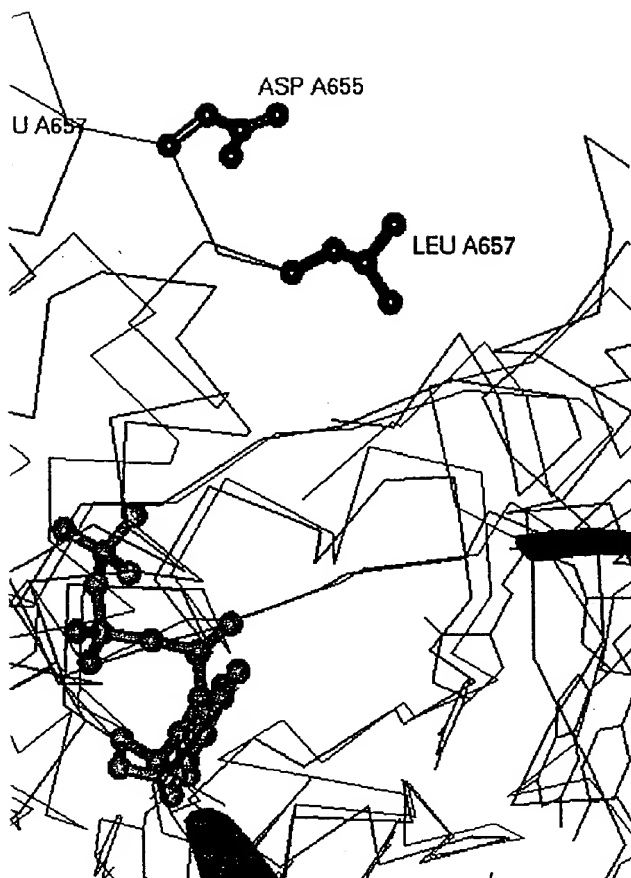


FIG. 3B

APPROVED	O.G. FIG.	
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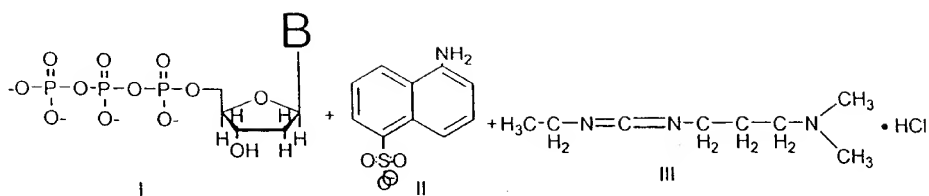


FIG. 3C

APPROVED	O.G. FIG.	
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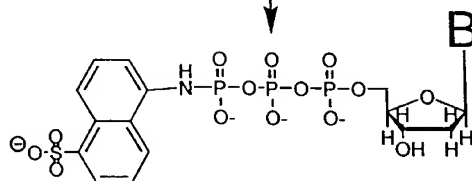
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B = A, C, T, G

H_2O , 22°C, 2.5 hours
pH: 5.7-5.8



dNTP γ -Am NS

FIG. 4

APPROVED	O.G. FIG.	
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Primer Strand:		
TOP	5'	GGT ACT AAG CGG CCG CAT G 3'
Template Strands:		
BOT-T	3'	CCA TGA TTC GCC GGC GTA CTC 5'
BOT-C	3'	CCA TGA TTC GCC GGC GTA CCC 5'
BOT-G	3'	CCA TGA TTC GCC GGC GTA CGC 5'
BOT-A	3'	CCA TGA TTC GCC GGC GTA CAC 5'
BOT-3T	3'	CCA TGA TTC GCC GGC GTA CTT TC 5'
BOT-Sau	3'	CCA TGA TTC GCC GGC GTA CCT AG 5'

Incorporate: GATC AG AAAG
(5' to 3')

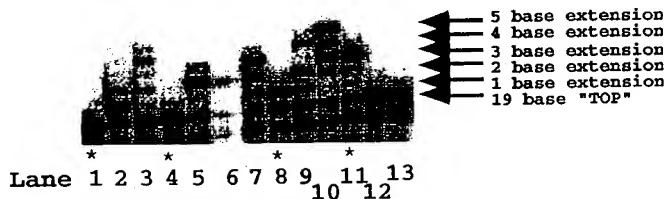


FIG. 5

APPROVED	O.G. FIG.	
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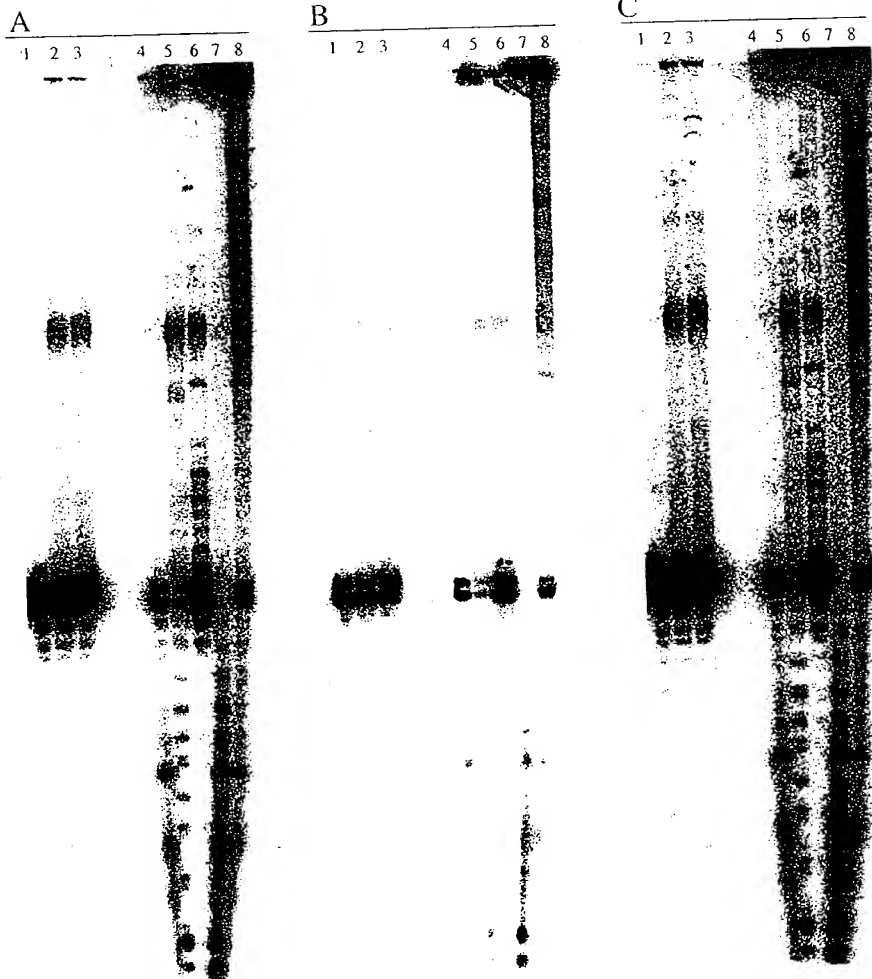


FIG. 6

APPROVED	O.G. FIG.	
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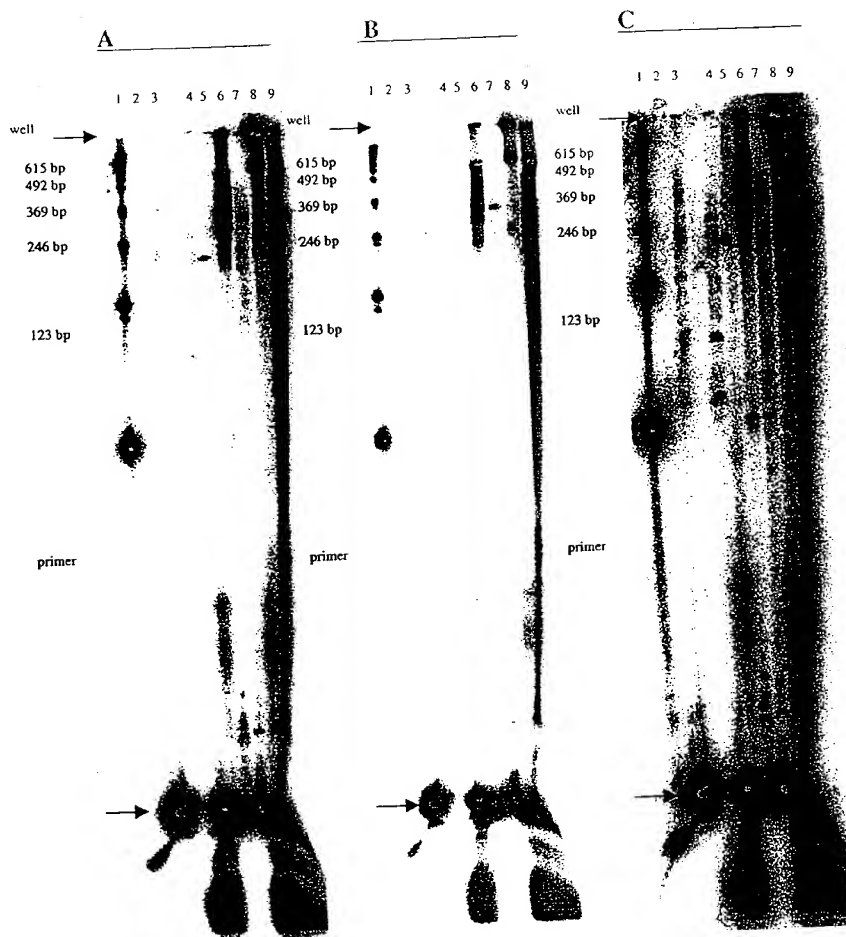


FIG. 7

APPROVED	O.G. FIG.	
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	Klenow										Taq	
Enzyme	-	+	+	+	+	+	+	+	+	+	+	+
Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+	+
Template	-	<u>BOT - 3T</u>			<u>BOT - T</u>			<u>BOT - Sau</u>			<u>BOT - 3T</u>	
Nucleotide	-	dG	dA	γ A	dG	dA	γ A	dG	dA	γ A	dA	γ A

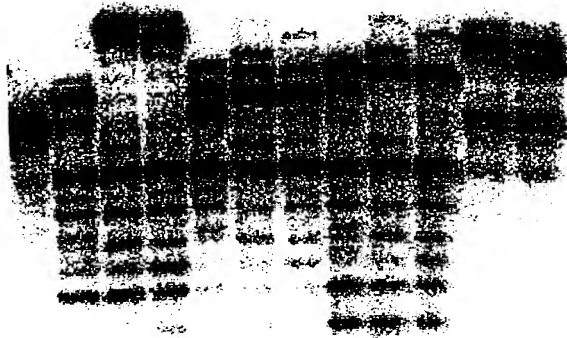


FIG. 8

APPROVED	O.G. FIG.	
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Pfu Primer Extension Assays

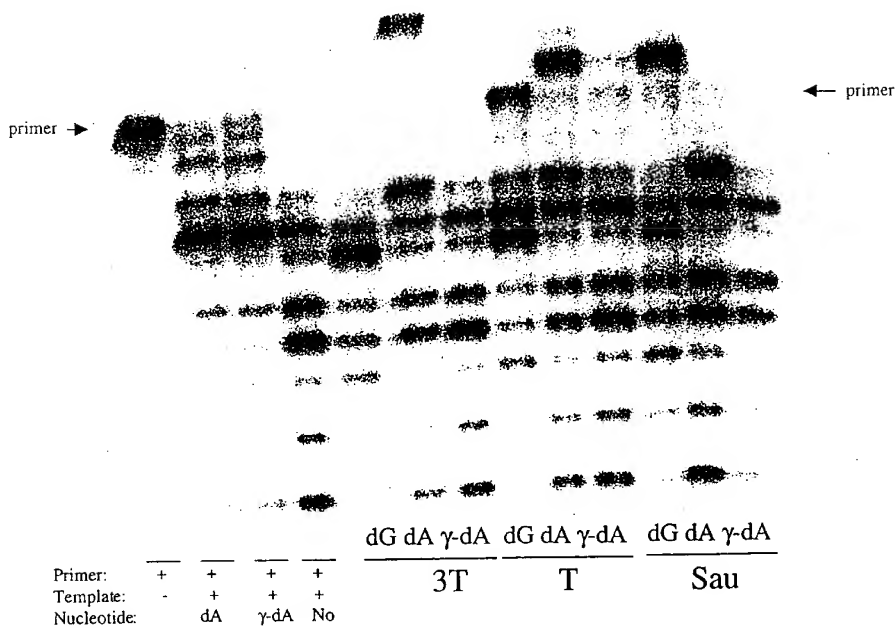


FIG. 9

APPROVED	O.G. FIG.	
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- Primer Strand:
Top 5' GGT ACT AAG CGG CCG CAT G 3'
- Template Strands:
3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

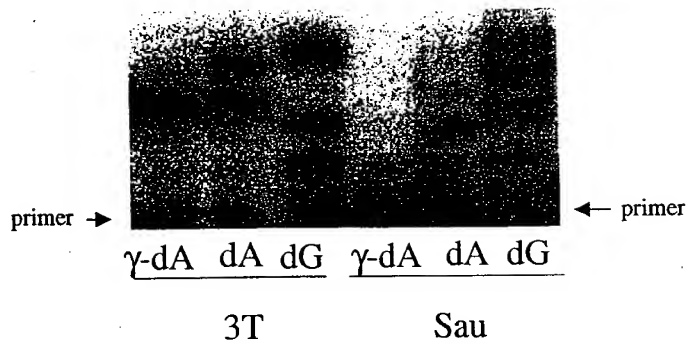


FIG. 10

APPROVED	O.G. FIG.	
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Primer Strand:

Top 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT-3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
 BOT-Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Enzyme:	None	T7	T7	Seq	Seq	T7				Sequenase				Taq			
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Template:	-	+	-	+		BOT-3T				Sau		BOT-3T		Sau		BOT-3T	
Nucleotide:	-	dA	γdA	dA	γdA	dG	dA	(spill)	γdA	dG	dA	γdAdG	dA	γdAdG	dA	γdA	dA

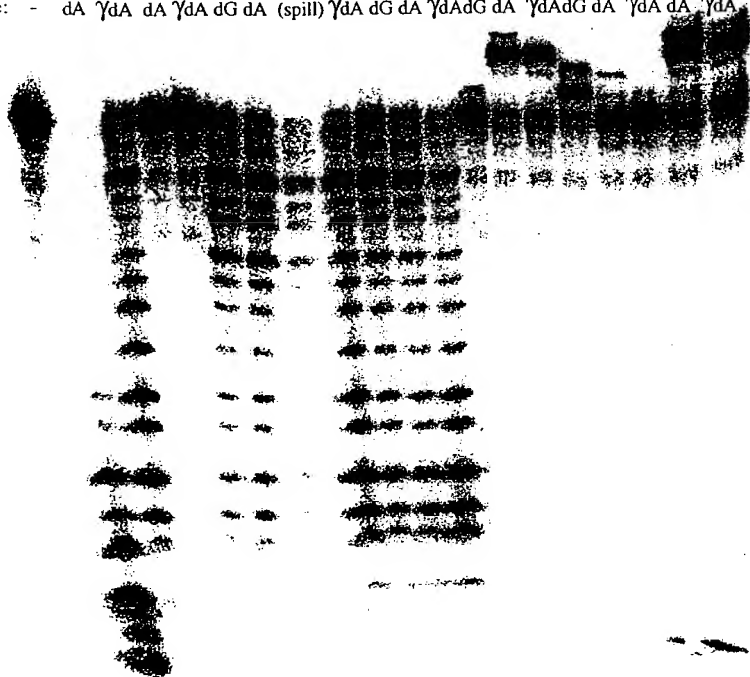
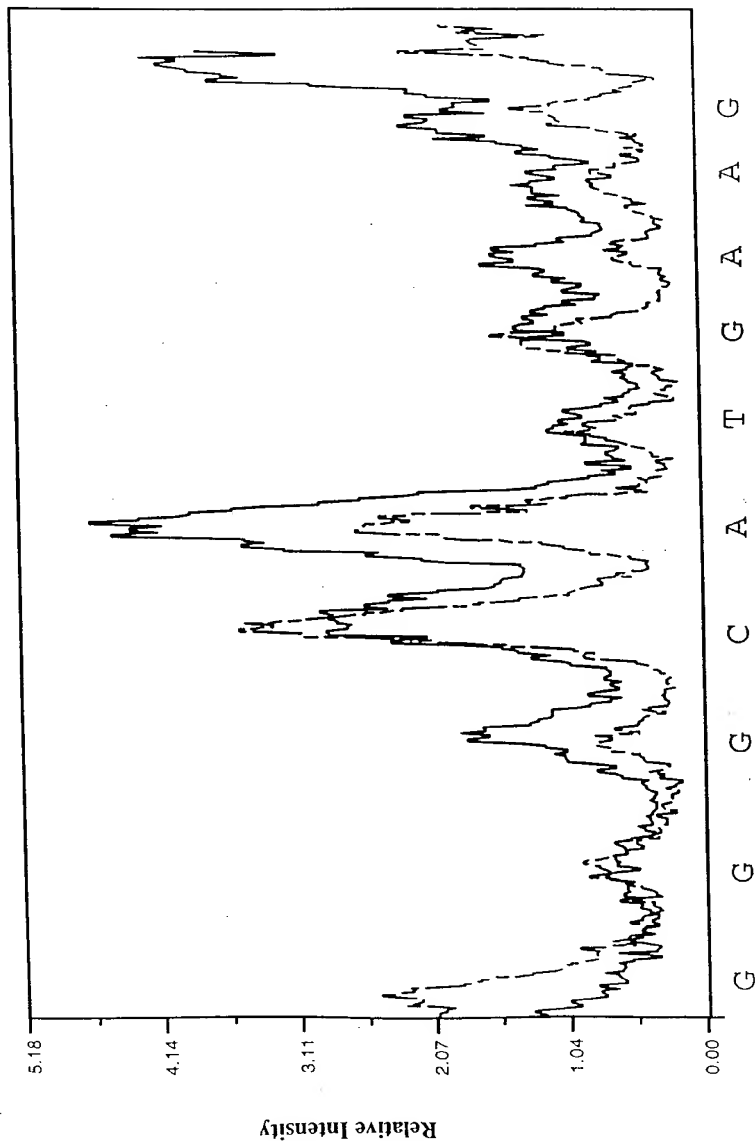


FIG. 11

APPROVED	O.G. FIG.	
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Signal Intensity and Reaction Kinetics Provide Information Concerning Base Identity.

FIG. 12